

Amend the following claims:

1. An apparatus for encoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.

6. A method for encoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.

7. A method for decoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within

predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.

Amended claims:

Sub B1
a2

1. An apparatus for encoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.

Sub B1
a3

6. A method for encoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.

7. A method for decoding data in accordance with a fire code $G(x) = P(x)(1 + x^c)$, where $P(x)$ is an irreducible polynomial of the degree m , characterized in that the value for C can be freely set within

Sub
B1A³

predetermined limits and changed so that a code with variable redundancy can be obtained, and the value for C or the values b and d for the error correction and detection properties of the incorporated redundancy are adaptable to the respective quality of the transmission channel.
